



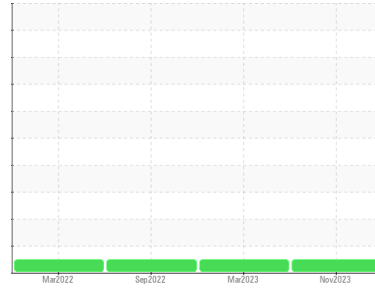
# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Area  
**COLORADO/443**  
 Machine Id  
**46.105L [COLORADO^443]**  
 Component  
**Coolant**  
 Fluid  
**CATERPILLAR ELC (12 GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

### Contaminants

There is no indication of any contamination in the coolant.

### Coolant Condition

Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0859634</b>	WC0766212	WC0672102
Sample Date	Client Info		<b>09 Nov 2023</b>	10 Mar 2023	14 Sep 2022
Machine Age	hrs	Client Info	<b>1832</b>	1355	855
Oil Age	hrs	Client Info	<b>1832</b>	0	855
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		<b>1.078</b>	1.078	1.078
pH	Scale 0-14 ASTM D1287		<b>7.70</b>	7.81	7.88
Nitrites	ppm AP-053:2009		<b>712</b>	676	448
Reserve Alkalinity	Scale 0-20 *ASTM D1121		<b>---</b>	---	---
Percentage Glycol	% ASTM D3321		<b>59.0</b>	58.6	58.2
Freezing Point	°F ASTM D3321		<b>-56</b>	-54	-54
Total Dissolved Solids			<b>369.5</b>	423.5	408.0
Carboxylate			<b>fail</b>	pass	pass

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	0	<b>45</b>	81	52
Phosphorus	ppm ASTM D6130	0	<b>118</b>	192	87
Boron	ppm ASTM D6130	0	<b>0</b>	0	0
Molybdenum	ppm ASTM D6130	950	<b>717</b>	1200	1148

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	<b>0</b>	0	0
Aluminum	ppm ASTM D6130	>10	<b>&lt;1</b>	0	0
Copper	ppm ASTM D6130	>10	<b>4</b>	4	2
Lead	ppm ASTM D6130	>10	<b>&lt;1</b>	0	<1
Tin	ppm ASTM D6130	>10	<b>2</b>	<1	<1
Zinc	ppm ASTM D6130		<b>1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		<b>19</b>	7	3

## CARRIER SALTS

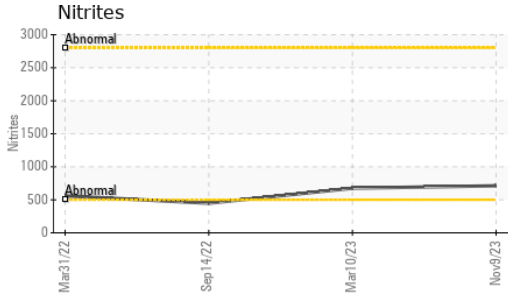
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		<b>3401</b>	6589	2805
Potassium	ppm ASTM D6130		<b>505</b>	928	306

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		<b>2</b>	1	1
Magnesium	ppm ASTM D6130		<b>1</b>	0	<1

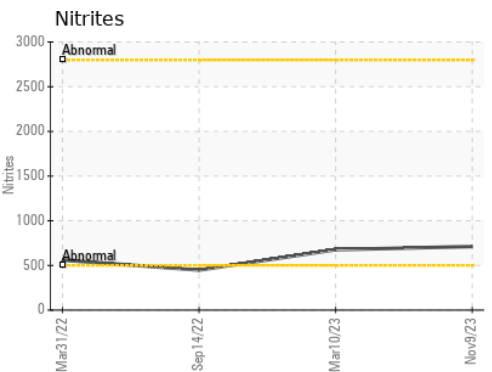
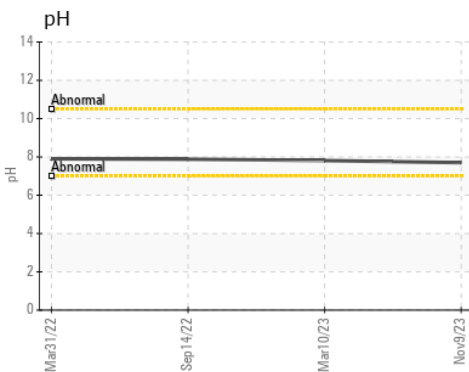
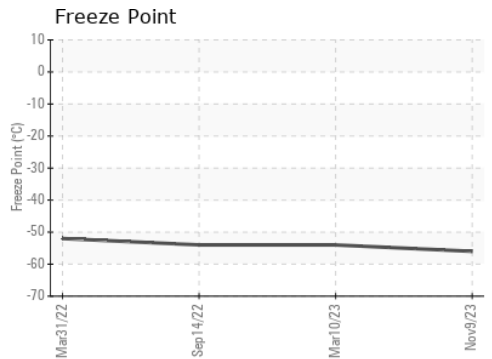
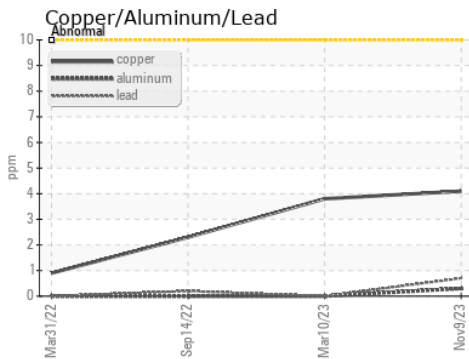
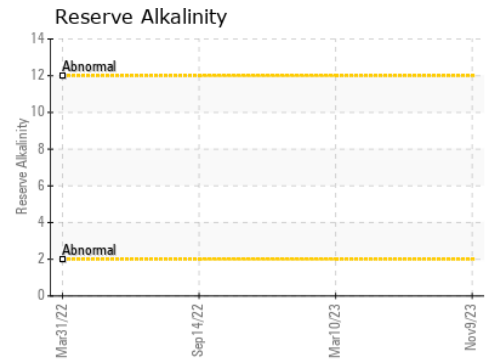
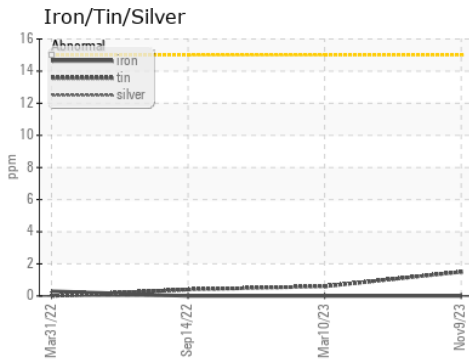


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color				no image	
Bottom				no image	

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0859634 **Received** : 15 Nov 2023  
**Lab Number** : 06009253 **Diagnosed** : 05 Dec 2023  
**Unique Number** : 10743015 **Diagnostician** : Doug Bogart  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)